

ZARETSKIY, I.I.; IVANOVA, V.D.; MIKHAYLOVA, I.A.; ROZANOVA, N.S.

Functional state of the kidneys in heterohemotransfusion. Probl.
gemat. i perel.krovi 1 no.6:48-54 N-D '56. (MIRA 10:1)

1. Iz TSentral'nogo ordena Lenina instituta gematologii i perelivaniya
krovi (dir. - chlen-korrespondent AMN SSSR prof. A.A.Bagdasarov)
Ministerstva zdravookhraneniya SSSR.

(BLOOD TRANSFUSION, exper.

heterogenic, eff. on kidney funct.)

(KIDNEYS, physiol.

eff. of exper. heterogenic blood transfusion)

ZARETSKIY, I.I.; SKURKOVICH, S.V. (Moskva)

~~Renal function in burns [with summary in English]. Pat.fiziol. i
eksp.terap. l. no.5:60-67 S-0 '57.~~ (MIRA 10:12)

1. Iz patofiziologicheskoy laboratorii (zav. - chlen-korrespondent
AMN SSSR prof. N.A.Fedorov) TSentral'nogo instituta hematologii i
perelivaniya krovi Ministerstva zdravookhraneniya SSSR (dir. -
doystvitel'nyy chlen AMN SSSR prof. A.A.Bagdasarov)

(BURNS, experimental,
kidney funct. in (Rus))
(KIDNEYS, in ar. dis.
exper. burns (Rus))

ZARETSKIY, I.I.
GARFUNKEL', M.L.; SUZDALEVA, V.V.; NEMENOVA, N.M.; ZARETSKIY, I.I.; GUREVICH,
I.B. (Moskva)

Blood transfusion during modified reactivity of the organism caused
by action of the spinal cord [with summary in English]. Arkh.pat.
19 no.9:67-73 '57. (MIRA 10:12)

1. Iz patofiziologicheskoy laboratorii (zav. - prof. N.A.Fedorov)
i laboratorii fizicheskoy i kolloidnoy khimii (zav. - prof. P.S.
Vasil'yev) Tsentral'nogo instituta hematologii i perelivaniya krovi
(dir. - chlen-korrespondent AMN SSSR prof. A.A.Bagdasarov) Minister-
stva zdravookhraneniya SSSR.

(BLOOD TRANSFUSION, experimental,
in spinal shock (Rus))

(SPINAL CORD, physiology,
eff. of section on reactivity to blood transfusion in
animals (Rus))

KRASHILINA, A.Ya.; TERENT'YEVA, E.I.; ZARETSKIY, I.I. (Moskva)

Antileukemic activity of antibiotic 6613. Pat. fiziol. i skup. terap. 6 no.1:59-62 Ja-F '62. (MIRA 15:3)

1. Iz "Sentral'nogo ordena Lenina instituta hematologii i perelivaniya krovi (dir. - deystvitel'nyy chlen AMN SSSR prof. A.A. Bagdasarov [deceased]).
(LEUKEMIA) (ANTIBIOTICS)
(CYTOTOXIC DRUGS)

ZARETSKIY, I.I.; RESHCHIKOV, V.P.; KHOKHOLOVA, M.P.; FERTUKOVA, N.M. (Moskva)

Dynamics of the restoration of hematopoiesis in irradiated mice
following bone marrow transplantation. Pat.fiziol.i eksp.terap. 6
no.2:26-31 Mr-Ap '62. (MIRA 15:8)

1. Iz TSentral'nogo ordena Lenina instituta genatologii i perelivaniya
krovi (dir. - dyestvitel'nyy chlen AMN SSSR prof. A.A. Bagdasarov).
(RADIATION SICKNESS) (BONE MARROW--TRANSPLANTATION)
(HEMOPOIETIC SYSTEM)

ZARENSKIY, I. I., Doc Med Sci (diss) -- "The effect of hemotransfusion on the functional state of the kidneys". Moscow, 1959. 26 pp (Acad Med Sci USSR), 200 copies (KL, No 22, 1959, 120)

ZARETSKIY, I.I.; MIKHAYLOVA, I.A. [deceased]; ROZANOVA, N.S.

Significance of the neural factor in the mechanism of functional renal changes following blood transfusion; functional state of the denervated and autotransplanted kidney in blood transfusion. Probl.gemat. i perel.krovi 4 no.3:55-56 Mr '59.

(MISHA 12:6)

1. Iz TSentral'nogo ordena Lenina instituta hematologii i perelivaniya krovi (dir. - deystvitel'nyy chlen AMN SSSR prof. A.A. Bagdasarov) Ministerstva zdravookhraneniya SSSR.

(KIDNEYS, physiol.

eff. of blood transfusion in dogs after
exper. denervation & autotranspl. (Rus))
(BLOOD TRANSFUSION, eff.

on kidney funct. after exper. denervation &
autotranspl. in dogs (Rus))

ZARETSKIY, I.I.; MIKHAYLOVA, I.A. [deceased]; ROZANOVA, N.S.

Functional state of the kidneys in blood transfusion in dogs with
a damaged thalamohypothalamic region. Probl.gemat.i perel.krovi
4 no.12:34-37 D '59. (MIRA 13:4)

1. Iz patofiziologicheskoy laboratorii (zaveduyushchiy - chlen-korrespondent AMN SSSR prof. N.A. Fedorov) TSentral'nogo ordena Lenina instituta hematologii i perelivaniya krovi (direktor - deystvit'nyy chlen AMN SSSR prof. A.A. Bagdasarov) Ministerstva zdravookhraneniya SSSR.

(BLOOD TRANSFUSION exper.)
(KIDNEYS physiol.)
(THALAMUS physiol.)
(HYPOTHALAMUS physiol.)

ZARETSKIY, I.I.; MIKHAYLOVA, I.A. [deceased]; ROZANOVA, N.S.

Kidney function following injury of the thalamo-hypothalamic regions of the brain. Biul. eksp. biol. i med. 49 no. 6:43-47 Je '60. (MIRA 13:8)

1. Iz patofiziologicheskoy laboratorii (zav. - chlen-korrespondent AMN SSSR prof. N.A. Fedorov) TSentral'nogo ordena Lenina instituta hematologii i perelivaniya krovi (dir. - deystv. chlen AMN SSSR A.A. Bagdasarov) Ministerstva zdravookhraneniya SSSR, Moskva. Predstavlena deystv. chленom AMN SSSR A.A. Bagdasarovym. (KIDNEYS) (BRAIN—WOUNDS AND INJURIES)

ZARETSKIY, I.I.; MIKHAYLOVA, I.A. [deceased]; ROZANOVA, N.S.

Functional significance of the efferent innervation of the kidneys.
Fiziol. zhur. 46 no. 5:593-601 My '60. (MIRA 13:12)

1. From the Pathophysiological Laboratory of the Central Institute
of Hematology and Blood Transfusion, Moscow,
(KIDNEYS--INNERVATION)

ZARETSKIY, I. I. (Moskva)

Modern methods for the functional study of the kidneys. Pat. fiziol.
i. eksp. terap. 4 no. 3:85-91 My.-Je '60. (MIRA 13:7)
(KIDNEYS---DIAGNOSIS)

ZARETSKIY, I.I.; FERTUKOVA, N.M.; RASHCHIKOV, V.P.; KHOKHLOVA, M.P.

Change in hemopoiesis in health animals following bone marrow
transplantation. Probl. gemat i perel. krovi 6 no. 2:21-26 '61.
(MIRA 14:2)
(MARROW—TRANSPLANTATION) (HEMOPOIETIC SYSTEM)

KRASHILINA, A.Ya.; TERENT'YEVA, E.I.; KORETSKAYA, T.I.; ZARETSKIY, I.I.
(Moskva)

Experimental investigations of the general toxic and antileukic
action of the antibiotic 6270. Pat. fiziol. i eksp. terap. 5 no.2:
21-26 Mr-Ap '61. (MIRA 14:5)

1. Iz TSentral'nogo ordena Lenina instituta gematologii i perelivaniya
krovi Ministerstva zdravookhraneniya SSSR (dir. - deystvitel'nyy
chlen AMN SSSR prof. A.A.Bagdasarov).
(ANTIBIOTICS) (LEUKEMIA)

ZARETSKIY, I.I.; KRASHILINA, A.Ya.; TERENT'YEVA, E.I.; KORETSKAYA, T.I.

Study of the action of some antineoplastic antibiotics on mouse
leukemia. Vop.onk. 7 no.11:68-75 '61. (MIRA 15:5)

1. Iz TSentral'nogo ordena Lenina instituta hematologii i pereli-
vaniya krovi Ministerstva zdravookhraneniya SSSR (dir. - deystv.
chл. AMN SSSR prof. A.A. Bagdasarov).
(LEUKEMIA) (ANTIBIOTICS) (CYTOTOXIC DRUGS)

BORISOVA, L.N.; KRASHILINA, A.Ye.; ZARETSKIY, I.I.

Carcinic effect of antineoplastic antibiotics and antileukemic agents on transplanted leukemias. Vop. onk. 11 no.5:76-79 '65.
(MTRA 18:8)

1. In laboratorii eksperimental'noy terapii bolezney sistemy krovi (zav. - prof. I.I.Zaretskiy) TSentral'nogo ordona Lenina instituta hematologii i perelivaniya krovi (dir. - dotsent A.Ye. Kisolev) Ministerstva zdravookhraneniya SSSR.

KRASHILINA, A.Ya.; BORISOVA, L.N.; ZARETSKIY, I.I., prof.

Study of the action of the sodium salt of antibiotic 6613 on
hematopoiesis and leucoses in animals. Probl. gemat. i perel.
(MIRA 17:12)
krovi no.10:18-22 '62.

1. Iz laboratorii eksperimental'noy terapii bolezney sistemy krovi
(zav. - prof. I.I. Zaretskiy) TSentral'nogo ordena Lenina instituta
gematologii i perelivaniya krovi (direktor - dotsent A.Ye. Kisslev)
Ministerstva zdravookhraneniya SSSR.

ZARETSKIY, I.I.; KRASHILINA, A.Ya.; BORISOVA, L.N.; GUREVICH, I.B.

Experimental study of the combined action of antineoplastic antibiotics and X-ray irradiation in leukemias. Med.rad. 8 no.2:51-57 F'63
(MIRA 16:11)

1. Iz laboratorii eksperimental'noy terapii bolezney sistemy krovi (zav. -prof. I.I.Zaretskiy) i rentgenologicheskogo otdeleniya (zav. - doktor med. nauk I.B.Gurevich) Tsentral'nogo ordena Lenina instituta gematologii i perelivaniya krovi Ministerstva zdravookhraneniya SSSR.

ZARETSKII, I. I.
Renal Function after Transfusion of Compatible Blood

I. I. Zaretskii, I. A. Mikhailova, and N. S. Rozanova. (Arkh. Patol.) 16, 26-31, April-June, 1954. 3 figs., 5 refs.

Transfusion experiments were conducted on 6 dogs with exteriorized ureters, each receiving a transfusion of 30 ml. of compatible blood. Renal function, before and up to 10 days after the transfusion, was studied by the determination of inulin and diodone clearances. A diphasic rhythm of the diuretic response was observed. The first stage lasted for 1 to 2 days, during which there was a reduction in the volume and chloride content of the urine, the effective renal blood flow, and the glomerular filtration rate, but the filtration fraction increased. From a study of the excretion of diodone by the tubules the authors concluded that the mass of functioning tubules does not change appreciably after transfusion, but that they are rendered relatively ischaemic, probably by spasm of the efferent glomerular arterioles; this is also responsible for stasis in the glomerular capillaries. With the onset of the second stage on the second or third day after transfusion there was an increase in the volume of urine and its chloride content. Excretory function returned to normal 4 to 6 days after transfusion.

A. Swan

SO: Abstracts of World Medicine, Vol. 16, No. 6

ZARETSKIY, I.I.

"Functional Condition of Kidneys in Heterohemotransfusion," by
I. I. Zaretskiy, V. D. Ivanova, I. A. Mikhaylova, and N. S.
Rozanova, Central Order of Lenin Institute of Hematology and
Blood Transfusion (director, Prof A. A. Bagdasarov, Corresponding Member, Academy of Medical Sciences USSR), Ministry of Health USSR, Problemy Genatologii i Perelivaniya Krovi, Vol 1, No 6, Nov/Dec 56, pp 48-54

Studies of kidney function were conducted on 14 dogs in an effort to study renal function at various periods after heterogenous blood transfusion.

It was found that both hetero- and isohemotransfusion are accompanied by two-phase changes in renal function. The first phase is characterized by decreased water elimination, concentration capacity, glomerular filtration, and renal flood flow and by increased filtered fraction of plasma and permeability of glomerular membrane. Changes in renal activity are more marked after heterogenous blood transfusion than after isohemotransfusion, and the former is characterized by decreased renal secretory activity.

The second phase of the posttransfusion period is characterized by an opposite development of physiological processes in the kidneys.

The functional condition of the kidneys after blood transfusion may be considered as one of the indices of reactivity characteristic of an organism during the posttransfusion period.

ZARETSKIY, I. I.

"New Trends in the Fields of Hematology and Blood Transfusion,"
by I. I. Zaretskiy, Candidate of Medical Sciences, Voyenno-
Meditsinskiy Zhurnal, No 6, Jun 56, pp 8-16

The Fifth European Congress on Hematology convened in September 1956, at Freiburg, Germany. The congress was attended by 415 delegates from 31 countries. The participants from the Soviet Union were A. A. Bagdasarov, chairman of the delegation, A. D. Belyakov, and I. I. Zaretskiy. The main theme at this congress was the influence of ionizing radiation on the blood system, problems of therapy, and the use of isotopes in hematology.

A. A. Bagdasarov reported on radiation leukopenia and proposed a new therapeutic method which uses leukocytes liberated from cationite blood. A. D. Belyakov presented a detailed study of the blood system by using radioactive isotopes. Other papers dealt with different types of anemia and its therapy by using vitamin B₁₂, folic acid, liver extract, amino acids, and vitamin B₁₂ in combination with other vitamins of the B group, and with therapy by parenteral and peroral means, dosage, frequency of administration, etc. In reports on the physiology and pathology of blood coagulation at least eleven causative factors were mentioned.

Other topics attracting great attention were concerned with the use of antihemophilia globulin in pure form to normalize the process of blood coagulation in hemophilia A, and the fact that the "properdin" level affects the course of anaphylactic shock and that after the action of ionizing radiation the level of this substance is precipitously decreased.

SUM. 1287

RALL', M.B., kand.med.nauk; ZARETSKIY, I.P.

Diagnostic significance of cholecystotomography. Vest. khir. 92 no.3:
56-59 Mr '64.

(MIRA 17:12)

1. Iz kliniki obshchey khirurgii (zav. - prof. S.M.Kurbangaleyev) i-go
Leningradskogo meditsinskogo instituta imeni Pavlova.

ZARETSKIY, I.P.

Role of the visiting nurse of the tumor clinic in outpatient care.
Med. sestra 19 no.12:37-38 D '60. (MIRA 13:12)

1. In poliklinicheskogo otdeleniya bol'nitsy Bologoye-2 Oktyabr'skoy
zhelезнnoy dologi. (CANCER NURSING)

ZARETSKIY, I.P.

Treatment of limited frostbite with perforated fibrin films. Khirurgiya 35 no.7:116-117 Jl '59.
(MIRA 12:12)

1. Iz khirurgicheskogo otdeleniya (nach. Ye.I. Oftina) ob'yedinennoy bol'nitsy (nach. - V.V. Samsonov) stantsii Bologoye II Oktyabr'skoy zheleznay dorogi.
(FROSTBITE, therapy)
(FIBRIN, therapy)

ZARETSKIY, I.P.

Perforated fibrin film in burn treatment of outpatients [with summary
in English]. Vest.khir. 80 no.6:66-67 Je '58 (MIRA 11:7)

1. Iz khirugicheskogo otdeleeniya ob'yedinennoy bol'nitsy (nach.
ob'yedineniya - V.V. Samsonov) stantsiya Bologoye-2 Oktyabr'skoy
zheleznoy dorogi. Adres: Kalininskaya oblast', stantsiya Bologoye-2
Oktyabr'skoy zheleznoy dorogi, bol'nitsa.
(BURNS, ther.)

Filatov's perforated fibrin film (Rus))

declassified

AUTHOR: Zaretskiy, I.S. (Cand.Tech.Sci.) SOV/110-58-10-16/24

TITLE: Calculation of the dynamic characteristics of d.c. welding generators. (Raschet dinamicheskikh kharakteristik svarochnykh generatorov postoyannogo toka)

PERIODICAL: Vestnik Elektro promyshlennosti, 1958, No.10. pp. 63-68 (USSR)

ABSTRACT: The dynamic characteristics of welding generators characterise their ability to react quickly to changes in welding conditions. The quality of welding generators is reflected in ease of ignition and stability of the arc during welding, and also in steady metal transfer from the electrode to the product. The main factors that influence the dynamic characteristics of welding generators are listed. They include, for example, the armature inductance and the mutual inductance between the armature and field, also the transient voltage drop at the commutator. If all these factors are taken into account they lead to a non-linear system of equations that can be solved only with approximate or numerical methods of integration. To simplify the analysis, the circuits of welding generators are reduced to a field circuit and a welding circuit. Other simplifying assumptions are explained. The simplified method of calculation that is given can be used to evaluate the dynamic properties of welding generators. An equation is first derived for the transient armature current. In fact, of course, welding generators are usually

Card 1/3

SOV/110-58-10-16/24

Calculation of the dynamic characteristics of d.c. welding generators.

working under transient conditions. An expression for the arc voltage is accordingly introduced into the e.m.f. equilibrium equation. Finally an expression is obtained for the transient current when the arc length changes. When the arc is struck the generator is shorted and the terminal voltage is zero. The electrode is then drawn away from the product until the output voltage becomes 25 - 50 V. An equation is derived for the recovery of the voltage during this process. The equations derived above can be used to calculate the parameters that govern the dynamic properties of generators. The method of making these calculations is then described and a stability coefficient is defined and introduced. The method of allowing for arc inductance is indicated. A system of criteria is then given for the evaluation of welding generators. The necessary calculations were made on some thirteen welding generators and the results are fully tabulated. It will be seen that some of the low-current machines have poor characteristics. It is recommended that the criteria recommended in this article should be included in the standard for welding generators.

Card 2/3

Calculation of the dynamic characteristics of d.c. welding SOV/110-58-10-16/24 generators.

Appendices include calculations of the re-establishment of field current and voltage, and also of the short-circuit current curve of a split-pole welding generator. There are 5 figures and 1 table.

SUBMITTED: June 14, 1957.

1. Arc welding--Equipment
2. Generators (D. C.)--Performance
3. Dynamics
4. Mathematics

Card 3/3

ZARETSKIY, Il'ya Semenovich, dots. [deceased]; MAVROMATI, Galina Spiridonovna, dots.; YERMOLIN, N.P., doktor tekhn. nauk, prof., red.

[Design of d.c. machines; course design manual] Raschet elektricheskikh mashin postoiannogo toka; posobie po kursovomu proektirovaniyu. Leningrad, 1962. 181 p.
(MIRA 18:1)

1. Leningrad. Elektrotekhnicheskly institut. 2. Kafedra elektricheskikh mashin Leningradskogo Elektrotekhnicheskogo instituta(for Zaretskiy, Mavromati). 3. Zaveduyushchiy kafedroy elektricheskikh mashin Leningradskogo Elektrotekhnicheskogo instituta (for Yermolin).

ZARETSKIY, I.TS.

Late results of surgical treatment of femoral hernias.
Khirurgija 35 no.3:98-99 Mr '59. (MIRA 12:8)

1. Iz khirurgicheskogo otdeleniya (zav. Ye.I.Oftina) lineynoy
bol'nitsy (nach. V.V.Samsonova) stantsii Bologoye II Oktyabr'-
skoy zheleznoy dorogi.

(HEIRNIA, FEMORAL, surg.
remote results (Rus))

ZARETSKIY, Ivan Ivarovich; KOZINEV, V.B., red.; CHULKOV, I.F.,
tehn. red.

[Clinical physiology and the methodology of functional
examination of the kidneys] Klinicheskaya fiziologiya i
metody funktsional'noi diagnostiki pochek. Moskva, Med-
giz, 1963. 279 p. (MIRA 17:3)

ZARETSKIY, K.A.

Abstract characteristic of the semigroup of all binary relations.
Uch. zap. Fed. inst. Gerts. 183:251-263 '58.

(MIRA 13:8)

(Groups, Theory of)

ZARETSKIY, K.A.

Abstract characteristic of the semigroup of all reflective binary relations. Uch. zap. Ped. inat. Gerts. 183:265-269 '58.

(MIRA 13:8)

(Groups, Theory of)

ZARETSKIY, K. A., Candidate Phys-Math Sci (diss) -- "Semigroups of binary relations". Leningrad, 1959. 7 pp (Leningrad State Pedagogical Inst im A. I. Gertsen), 150 copies (KL, No 24, 1959, 125)

16(1)

AUTHOR: Zaretskiy, K.A.

06306

SOV/140-59-6-7/29

TITLE: Representation of Ordered Semigroups by Binary Relations

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika, 1959,
Nr 6, pp 48-50 (USSR)ABSTRACT: A partially ordered set with an associative multiplication is
called an ordered semigroup if for arbitrary elements x, y, z of
 Ω there follows $xz \leq yz$, $zx \leq zy$. A binary relation in the set
 Ω is an arbitrary set of ordered pairs (α, β) , where $\alpha, \beta \in \Omega$.
Theorem: Every ordered semigroup is isomorphic to an ordered
semigroup of binary relations in a certain set.Theorem: In order that the ordered semigroup A is isomorphic to
an ordered semigroup of transitive (reflective) binary relations,
it is necessary and sufficient that for all $x \in A$ it holds $x^2 \leq x$
(that for all $x, y \in A$ it holds $xy \geq x$ and $xy \geq y$).

The author mentions V.V. Vagner.

There is 1 Soviet reference.

ASSOCIATION: Birskiy pedagogicheskiy institut (Birsk Pedagogical Institute)

SUBMITTED: December 25, 1958

Card 1/1

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001963820011-0

ZARETSKIY, K.A.

Representations of structures by sets. Usp. mat. nauk 16
no.1:153-154 Ja-F '61. (MIHA 14:6)
(Aggregates)

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001963820011-0"

ZARETSKIY, K.A.

Regular elements of a semigroup of binary relations. Usp.mat.
nauk 17 no.3:177-179 My-Je '62. (MIRA 15:12)
(Groups, Theory of)

ZARETSKIY, K.A. (Birsk)

A semigroup of binary relations. Mat. stor. 61 no.3:291-305
Jl '63. (MIRA 16:7)

(Groups, Theory of)

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001963820011-0

ZARETSKIY, K.A.

Transformation of an unconnected graph into a cartesian product.
Kibernetika no.2:89 Mr-Ap '65. (MIRA 18:5)

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001963820011-0"

ZARETSKIY, K.A.

Construction of a "tree" according to the sum of distances
between hanging vertices. Usp. mat. nauk 20 no. 6:90-92
N-D '65. (MIRA 18:12)

1. Submitted Jan. 21, 1965.

KOLBENKOV, S.P.; MEDYANTSEV, A.N.; IOFIS, M.A.; KOROTKOV, M.V.;
MULLER, R.A.; YUSHIN, A.I.; MELAMUT, L.Sh.; KARGIN, G.P.;
GERTNER, P.F.; ZARETSKIY, K.S.; CHECHKOV, L.V., red.izd--
va; MAKSIMOVA, V.V., tekhn. red.

[Designing, constructing, and protecting buildings and
structures on foundations undercut by mining] Proektiro--
vanie, stroitel'stvo i okhrana zdanii i sooruzhenii na pod--
rabatyvayemykh territoriakh. Moskva, Gosgortekhizdat,
1963. 451 p. (MIRA 16:8)
(Earth movements and building)

18

SOV/127-59-4-12/27

AUTHORS: Denisov, N.M., Zaretskiy, L.I., Kapelyushnikov,
L.Ye., Redekap, A.V., Sevostyanov, I.M. and
Tereshchenko, N.A.

TITLE: A Portal Timber Stacker. (Portal'nyy krepeuklad-chik)

PERIODICAL: Gornyy zhurnal, 1959, Nr 4, p 56 (USSR)

ABSTRACT: This is a description of a portal timber stacker
- author's certificate Nr 109261, class 5s, 10_{ol}.
There are 3 diagrams.

Card 1/1

BYKHOVSKIY, I.I. (Moskva); DOROKHOVA, A.D. (Moskva); ZARETSKIY, L.B.
(Moskva); LUKOMSKIY, S.I. (Moskva)

Some periodic movements and the structure of the phase space
of an impact-vibration system with a regularly recovered
force. Izv. AN SSSR. Mekh. i mashinostr. no. 2:161-165
Mr-Ap '64. (MIRA 17:5)

ZABETSKIY, L.M.

The study of machinery as a school subject. Politekh. obuch. no.4:
42-47 Ap '58. (MIRA 11:3)
(Mechanical engineering--Study and teaching)

ZARETSKIY, L.M.

Machine-shop practice in the 8th grade. Politekh. obuch. no. 1; 31-37
Ja '57. (MIRA 10:4)

1. Rukovoditel' praktikuma po mashinovedeniyu.
(Machine-shop practice)

ZARETSKIY, Leonid Markovich; AVERICHES, Yu.P., red.; DMITRIEV,
A.B., red.

[Technical mechanics; a textbook] Tekhnicheskaya mekhanika;
uchebnoe posobie. Moskva, Prosveshchenie, 1965. 266 p.
(MIRA 18:5)

ROZHKOV, Ivan Sergeyevich; MIKHALEV, Gav Petrovich; ZARETSKIY,
Leonid Mikhaylovich. Prinimala uchastiye NEKRASCOVA, R.A.;
VANYUKOVA, O.M., red.izd-va; SAKS, V.M., Sov.red.; RYLIINA, Yu.V.,
tekhn.red.

[Diamond-bearing placers in the Malaya Botuobiya region of
western Yakutia; conditions governing their formation, the
composition of continental sediments, and genetic types]
Almazonosnye rossypi Malo-Botuobinskogo raiona zapadnoi
Iakutii; usloviia ikh formirovaniia, sostav kontinental'-
nykh otlozhenii i geneticheskie tipy. Moskva, Izd-vo AN
SSSR, 1963. 136 p. (MIRA 16:10)

1. Chlen-korrespondent AN SSSR (for Saks).
(Malaya Botuobiya Valley--Diamonds)

TUYEV, G.V.; ZAREVSKIY, L.S.

Transducer of the automatic polarographic concentration meter
LAPK-475. Zav. lab. 30 no.8;1025-1026 '64. (MIRA 18:3)

1. Severo-Kavkazskiy filial konstruktorskogo byuro "TSvetmetavtomatika".

TUYEV, G.V.; ZARETSKIY, L.S.

Phase polarography. Zav.lab. 29 no.11:1291-1293 '63.
(MIRA 16:12)

1. Severo-Kavkazskiy filial konstruktorskogo byuro "TSvetmetavtomatika".

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820011-0

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963820011-0"

SANDOMIRSKIY, D.; ZARETSKIY, M.

Some problems in manufacturing foam goods from latex. Kauch. i rez.
16 no.3:32-36 Mr '57. (MIRA 12:3)

1. Institut tonkoy khimicheskoy tekhnologii imeni Mendeleyeva.
(Foam rubber)

ROZENFEL'D, Ye.L.; LUKOMSKAYA, I.S.; GORODETSKIY, V.K.; ZARUBINA, N.A.;
ZARETSKIY, M.M.

Saccharose synthesis in man. Vop. med. khim. 10 no.5:554-556
S-6 '64. (MIRA 18:11)

1. Institut biologicheskoy i meditsinskoy khimii AMN SSSR i
Vsesoyuznyy institut eksperimental'noy endokrinologii, Moskva.

KALININ, A.P.; SHAKHNOVSKAYA, V.F.; ZARETSKIY, M.M.

Pregnancy and labor in Itsenko-Cushing's disease. Probl. endok.
i gorm. 11 no.6:13-17 N-D '65. (MIRA 18:12)

1. Terapevticheskoye otdeleniye (zav. - kand. med. nauk A.G.Vasil'yeva) i khirurgicheskoye otdeleniye (zav. prof. O.V.Nikolayev)
Instituta eksperimental'noy endokrinologii AMN SSSR, Moskva.

137-58-6-11477

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 32 (USSR)

AUTHORS: Arkad'ev, A.G., Zaretskiy, M.M., P'yankov, V.A.

TITLE: New Instruments for Automation of Titanium Production (Novyye pribory dlya avtomatizatsii titanovogo proizvodstva)

PERIODICAL: Tr. Vses. n.-i. alumin.-magn. in-ta, 1957, Nr 40,
pp 413-419

ABSTRACT: A description is presented of an instrument developed by VAMI for automatic identification of the most highly heated working tip of a multiple junction thermocouple in the retort of a unit for thermal reduction of Ti with magnesium. The instrument consists of a device sensitive to sign with 2 telephone step selectors (SS) actuated by a synchronous low-power motor and serving to effect a differential connection of 2 thermocouple working tips to an electronic amplifier (EA). At the output of the EA there is a relay R1, which, jointly with another, R2, functioning en bloc with it, stops SS-2 and connects the EA and the regulating instrument that automatically controls the operating cycle of the unit with the working tip with the maximum temperature. Meanwhile SS-1 successively connects the

Card 1/2

137-58-6-11477

New Instruments for Automation of Titanium Production

other junctions to the EA. If their thermo-emf (i.e., temperature) is at all times less than the thermo-emf of the working tip permanently connected through the SS-2, the SS-2 will remain in the same position. If any of the thermo-emf is greater, the SS-1 is shut off and stops, and the R1 connects the SS-2 which, on reaching the working tip connected through the SS-1, comes to a stop and turns on the SS-1 through the R2. The cycle is then repeated.

M.L.

1. Titanium--Production
2. Thermocouples--Temperature factors
3. Instruments--Design
4. Magnesium--Applications

Card 2/2

ZARETSKIY, M.N.

[Investigating automatic speed control systems for skip hoists equipped with electric drives and engine deceleration by throttling] Issledovanie sistemy avtomaticheskogo regulirovaniia khoda skipovykh podzemnykh ustanovok, oborudovannykh asinkhronnym elektroprivodom s drossel'nym upravleniem, v rezhime dvigatel'nogo zamedleniya. Moskva, Mosk.gornyi in-t im. I.V. Stalina, 1959. 49 p. (MIRA 13:1)

(Mine hoisting)

(Automatic control)

ZARETSKIY, M.R.; BORODKINA, T.V.

Effect of the duration of steam heating in curing chambers on the
"uneven bead wire rings" in tire casings. Kauch.i rez. 20 no.5:
49-50 My '61. (MIRA 14:5)

1. Voronezhskiy shinnyy zavod;
(Tires, Rubber)

ZARETSKIY, M.S., starshiy nauchnyy sotrudnik; GOLOVKOV, S.I., starshiy nauchnyy sotrudnik

Selecting an optimal design for the use of wood waste for power production and chemical products. Trudy TSNIIME no.27:3-53
'61. (MIRA 15:4)

(Wood waste) (Electric power production)

VORONITSYN, K.I., kand. tekhn. nauk, red.; TIZENGAUZEN, P.E., kand. tekhn. nauk, red.; NADBALKH, M.P., red.; TANTSEV, A.A., starshiy nauchnyy sotr., red.; ABRAMOV, S.A., kand. tekhn. nauk, red.; ABRAMOV, D.A., red.; BOGDANOV, N.I., starshiy nauchnyy sotr., red.; VINOGOROV, G.K., kand. tekhn. nauk, red.; GAVRILOV, I.I., starshiy nauchnyy sotr., red.; GUSARCHUK, D.M., starshiy nauchnyy sotr., red.; D'YAKONOV, A.I., red.; ZAV'YALOV, M.A., kand. tekhn. nauk, red.; ZARETSKIY, M.S., starshiy nauchnyy sotr., red.; KACHELKIN, L.I., starshiy nauchnyy sotr., red.; KISHINSKIY, M.I., kand. tekhn. nauk, red.; KOLTUNOV, B.Ya., starshiy nauchnyy sotr., red.; OSIPOV, A.I., kand. tekhn. nauk, red.; SHINEV, I.S., kand. ekon. nauk, red.

[Materials of the enlarged session of the Scientific Council of the Central Scientific Research Institute for Mechanization and Power Engineering in Lumbering on problems concerning power engineering and the electrification of the lumber industry]
Materialy rasshirennoi sessii Uchenogo soveta TsNIME po voprosu energetiki i elektrifikatsii lesnoi promyshlennosti. Moskva,
(MIRA 15:4)
1961. 75 p.

(Continued on next card)

VOKONITSYN, K.I.---(continued) Card 2.

1. Khimki. TSentral'nyy nauchno-issledovatel'skiy institut me-khanizatsii i energetiki lesnoy promyshlennosti. 2. Nachal'nik TSentral'nogo byuro tekhnicheskoy informatsii lesnoy promyshlennosti (for Nadbach). 3. Direktor TSentral'nogo nauchno-issledovatel'skogo instituta mekhanizatsii i energetiki lesnoy promyshlennosti (for Voronitsyn). 4. Uchenyy sovet TSentral'nogo nauchno-issledovatel'skogo instituta mekhanizatsii i energetiki lesnoy promyshlennosti (for D'yakonov). 5. Nachal'nik otdeleniya energetiki i sredstv avtomatizatsii TSentral'nogo nauchno-issledovatel'skogo instituta mekhanizatsii i energetiki lesnoy promyshlennosti (for Zaretskiy).

(Lumbering) (Electric power)

TERMOLENKO, N.F.; SHIRINSKAYA, L.P.; ZARETSKIY, M.V.

Cation exchange reactions of alkaline earth metals on NaA type synthetic zeolite. Vestsii AN BSSR. Ser. Fiz.-tekhn. nauk. no.2:111-114. '63.

S/250/62/006/003/003/004
1001/1201

AUTHOR: Levina, S. A., Shirinskaya, L. P., Zaretskiy, M. V. and Yermolenko, N. F.

TITLE: Structure and adsorption properties of CaA-zeolites having cation exchanged forms

PERIODICAL: Akademiya nauk Belaruskay SSR, Doklady, v. 6, no. 3, 1962, 164-167

TEXT: The work was carried to study the properties of native zeolites. Samples of zeolite CaA 202-291, from the Gorkiy base of VNIIINP were dried for several hours and then ground and sifted through a screen ($d = 0.25\text{--}0.1$ mm). Portions of 0.5 g of the zeolite were shaken for an hour at 20°C with a solution of the corresponding nitrate or chloride salts and left for 48 hrs. The amounts of displaced Ca were determined by the oxalate method or complexometrically. The following zeolites were prepared by cation exchange: Na(Ca), Li(Ca), K(Ca), Zn(Ca), Mg(Ca), Ni(Ca), Sr(Ca), Cd(Ca), Pb(Ca), Ba(Ca), Bi(Ca) NH₄(Ca), Co(Ca), Rb(Ca). An X-ray tube BCB-4 (BSV-4) was used with an iron anticathode to determine the structure of the samples. The roentgenograms were taken by the Debye method in a high resolving power camera BPC-3 (VRS-3). β -radiation was not filtered. The adsorption capacity of the samples with respect to water and methyl-alcohol was determined by means of a quartz spring balance, in vacuo.

The authors conclude: (1) No complete exchange occurs under the given conditions. (2) CaA-zeolites as well as their substituted forms have a simple cubic lattice structure of the type Linde 4A. (3) Changes in the

Card 1/2

Structure and...

S/250/62/006/003/003/004
1001/1201

period of the lattice are established with the exchange of Ca for other ions. (4) A partial destruction of the crystal lattice occurred in some cation-exchange of zeolites Ca A. (5) Adsorption capacity can be increased by a partial substitution of Ca-ions in zeolites 5A for Li, Mg and Na ions.

The most important English-language references are: R. M. Barrer, Proc. Chem. Soc., April 1958, 99-112; R. M. Barrer, W. M. Meier, Trans, Faraday Soc., 54, 7, 1958, 1074; R. M. Milton, Pat. U.S.A. 2882244, 14/04, 1959; J. H. Estes, Pat. U.S.A. 2847280, 12/05, 1958. There is 1 table.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii AN BSSR (Institute of General and Inorganic Chemistry, AS BSSR).

SUBMITTED: December 11, 1961

Card 2/2

YEMEL'YANOV, N.P. [Emial'ianau, N.P.]; ZARETSKIY, M.V. [Zaretski, M.V.]

Dehydration of 1-cyclohexen-3-ol over γ -aluminum oxide or catalytic vapor-phase method for obtaining 1,3-cyclohexadiene. Vestsii AN BSSR Ser. fiz.-tekhn. nav. no. 1:88-97 '61. (MIRA 14:4)
(Cyclohexadiene)

LEVINA, S.A.; SHIRINSKAYA, L.P.; ZARETSKIY, M.V.; YERMOLENKO, N.F.

Structure and adsorption properties of cation-substituted forms of
CaA zeolite. Dokl. AN BSSR 6 no.3:164-167 Mr '62. (MIRA 15:3)

1. Institut obshchey i neorganicheskoy khimii AN BSSR.
(Zeolites) (Ion exchange)

LAZAREV, M.Ya. [Lazarau, M.IA.]; ZARETSKIY, M.V. [Zaretski, M.V.]

X-ray structural analysis of dehydroabietic acid. Vestsi AN BSSR.
Ser. fiz.-tekhn. nav. no.1:34-40 '59. (MIRA 12:6)
(Abietic acid) (X-ray crystallography)

produced H depend on the heating time. It was shown that the H peak obtained during the amorphization process of I can be converted to multiple forms of H with an increasing time of exposure to heat.

ZARETSKI, M.V.

USSR / Physical Chemistry. Liquids and Amorphous Bodios,
Gases,

B-6

Abs Jour : Ref Zhur - Khimiya, No 8, 1957, 26027

Author : B.V. Yerafeyeu, S.F. Naumava, M.V. Zaretski
Title : Study of Nature of Amorphous Abietic Acid

Orig Pub : Vestsi AN BSSR, Ser. fiz.-tekhn. n., Izv. AN BSSR, Ser.
fiz.-tekhn. n., 1956, No 2, 103 - 109

Abstract : Abietic acid (I) of various degrees of amorphism was stu-
died by the x-ray diffraction and roentgenographic me-
thods. It was shown that amorphous preparations of I con-
tain impurities produced in the result of decarboxylizing
and other transformations of I. The impurities produced at
the amorphization of I and crystalline I can produce solid
solutions,

Card : 1/1

ZARITS'KIY, M.O., professor.

Homeomorphic immeasurable representations. Dop.ta pov.
L'viv.un. no.4, pt.2:59-60 '53. (MLRA 9:11)

(Surfaces, Representation of)

PATSIORA, P.P., prof.; SHESTAKOVSKIY, G.F., inzh.; ROMANENKO, P.N.,
prof.; MOROZOV, A.V., kand. tekhn. nauk; dots.; ZARETSKIY,
M.S., red.; MIROPOL'SKIY, Z.L., red.; POPOVA, A.G., red.
izd-va; SHIBKOVA, R.Ye., tekhn. red.

[Power engineering in the lumber industry] Energetika lesnoi
promyshlennosti; spravochnik. Moskva, Goslesbumizdat, 1962.
(MIRA 16:3)
545 p.
(Electricity in lumbering--Handbooks, manuals, etc.)

IAZERKO, G.A.; DVINTENKO, I.A.; ZARETSKIY, M.V.

Kinetics of the formation of double ammoniates. Zhur. fiz. khim. 39 no.9:2169-2174 S '65. (MIRA 18:10)

L. Belarusklyy gosudarstvennyy universitat imeni V.I. Lenina.

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001963820011-0

IVAN'KOVICH, Ye.F. [Ivan'kovich, Ia.F.]; ZARETSKIY, M.V. [Zarietski, M.V.];
YEROFEEV, B.V. [Erafevu, B.V.]

Spinels as carriers of catalysts for n-hexane aromatization.
Vestsi AN BSSR.Ser.khim.nav. no.2:5-9 '65.

(MIRA 18:12)

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001963820011-0"

ZARETSKIY, N. I.

"Investigation of the Dynamics of Mixing in Pulp-Mixing Machines." Cand
Tech Sci, Leningrad Technological Inst of the Refrigeration Industry, Min Higher
Education USSR, Leningrad, 1954. (KL, No 2, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher
Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

2860 Zaretskij, V. I.

Issledovanie dinamiki peremeshivaniya v testomashinakh'nykh mashinakh. L., 1954.
14 s. s chert. 20 sm. (MVO SSSR. Leningr. tekhnol. in-t kholodil'noy prom-sti).
100 Ekz. B. ts. - (54-55740)

ZARETSKIY, N.K.; MALOV, V.A., kandidat pedagogicheskikh nauk.

Summer agricultural work of Pioneer detachments on collective farms,
Biol.v shkole no.4:53-58 Jl-Ag '57. (MLRA 10:8)

1.Direktor Grabtsevskoy semiletney shkoly Kaluzhskogo rayona
Kaluzhskoy oblasti (for Zaretskiy). 2.Kalushskiy pedagogicheskiy
institut (for Malov).

(Kaluga Province--Agriculture--Study and teaching)
(Pioneers (Communist Youth))

SAMSONOV, V.P.; ZARETSKIY, N.S.

Azimuthal and geographical distribution of the rays of polar lights
according to data of stations of the Yakut network. Geomag.
1 aer. 3 no.2:246-251 Mr-Ap '63. (MIRA 17:2)

1. Yakutskiy filial Sibirskogo otdeleniya AN SSSR.

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001963820011-0

SAMSONOV, V. P.; ZARETSKII, N. S.

"The Spatial and Time Distribution of Auroras over the Territory of Yakutya."

report presented at the 13th Gen Assembly, IUGG, Berkeley, Calif, 19-31 Aug 63.

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001963820011-0"

S/205/63/005/002/007/027
D207/D307

AUTHORS: Samsonov, V.P. and Zaretskiy, N.S.

TITLE: Azimuthal and geographic distribution of auroral rays according to the data of the Yakutsk station network

PERIODICAL: Geomagnetizm i aeronomiya, v. 5, no. 2, 1963, 246-251

TEXT: Anomalous azimuthal and nonuniform ('patchy') geographic distributions of auroral rays were observed by the stations Kazach'ye ($\phi = 58.8^\circ$, $\Lambda = 199.0^\circ$), Verkhoyansk ($\phi = 56.6^\circ$, $\Lambda = 195.4^\circ$), Olenek ($\phi = 57.0^\circ$, $\Lambda = 180.9^\circ$) and Yakutsk ($\phi = 51.0^\circ$, $\Lambda = 193.8^\circ$) in the Yakutsk ASSR. The observations were in the form of films obtained with cameras C-180° (S-180°) at the rate of 1-3 frames per minute, the exposure of one frame being 20 sec. The auroral distribution was found to correspond to the local structure of the geomagnetic field. The region of the highest concentration of rays between Kazach'ye and Verkhoyansk coincides with the central

Card 1/2

S/205/65/003/002/007/027
D207/D307

Azimuthal and geographic ...

zone of the East Siberian magnetic declination anomaly. The Olenek region has an anomaly of the vertical component of the geomagnetic field. The region of Nizhnaya Tunguzka and Yenisey has an anomaly of the total geomagnetic vector. The data showed also the 'shore effect' in the distribution of rays, which has previously been observed by other workers for auroral arcs. There are 4 figures and 1 table.

ASSOCIATION: Yakutskiy filial 30 AN SSSR (Yakutsk Division of the Siberian Branch of the AS USSR)

SUBMITTED: September 24, 1962

Card 2/2

SOLOD'KO, D., prokhodchik; ZAKHAROV, A., rabochiy ochistnogo zabora;
ZADOROZHNYY, M., vzryvnik; NOVIKOV, V., rabochiy ochistnogo
zabora; MASLIKOV, D., buril'shchik; YURCHEEKO, I., gornyy master;
ZARETSKIY, P., brigadir elektrikov; RASSKAZOV, L., litsotrudnik
shakhtnoy gazety; VIZEN, I.; DOKUCHAYEV, A.

Our inspection raid. Mast.ugl. no.10:11-13 0 '59. (MIRA 13:3)

1. Reydovaya brigada zhurnala "Master uglya." 2. Literaturnyy
sotrudnik zhurnala "Master uglya." (for Vizen, Dokuchayev).
(Donets Basin--Coal mines and mining)
(Mine management)

ZARETSKIY, P.A. [Zarets'kyi, P.A.], klinicheskiy ordinator

Combined cancer and fibromyoma of the uterus. Ped., akush.
i gin. 22 no.5:42-43 '60. (MIRA 15:6)

1. Khar'kovskiy institut meditsinskoy radiologii (direktor
instituta - dotsent V.I. Shantir [Shantyr, V.I.]).
(UTERUS—CANCER)

BERLOVSKIY, A.Ya.; ZARETSKIY, P.A.; STANISLAVSKAYA, N.G.

Standardization of uterine and vaginal applicators used in
intracavitary radiotherapy. Med. rad. 10 no.11:31-34 N '65.
(MIRA 19:1)

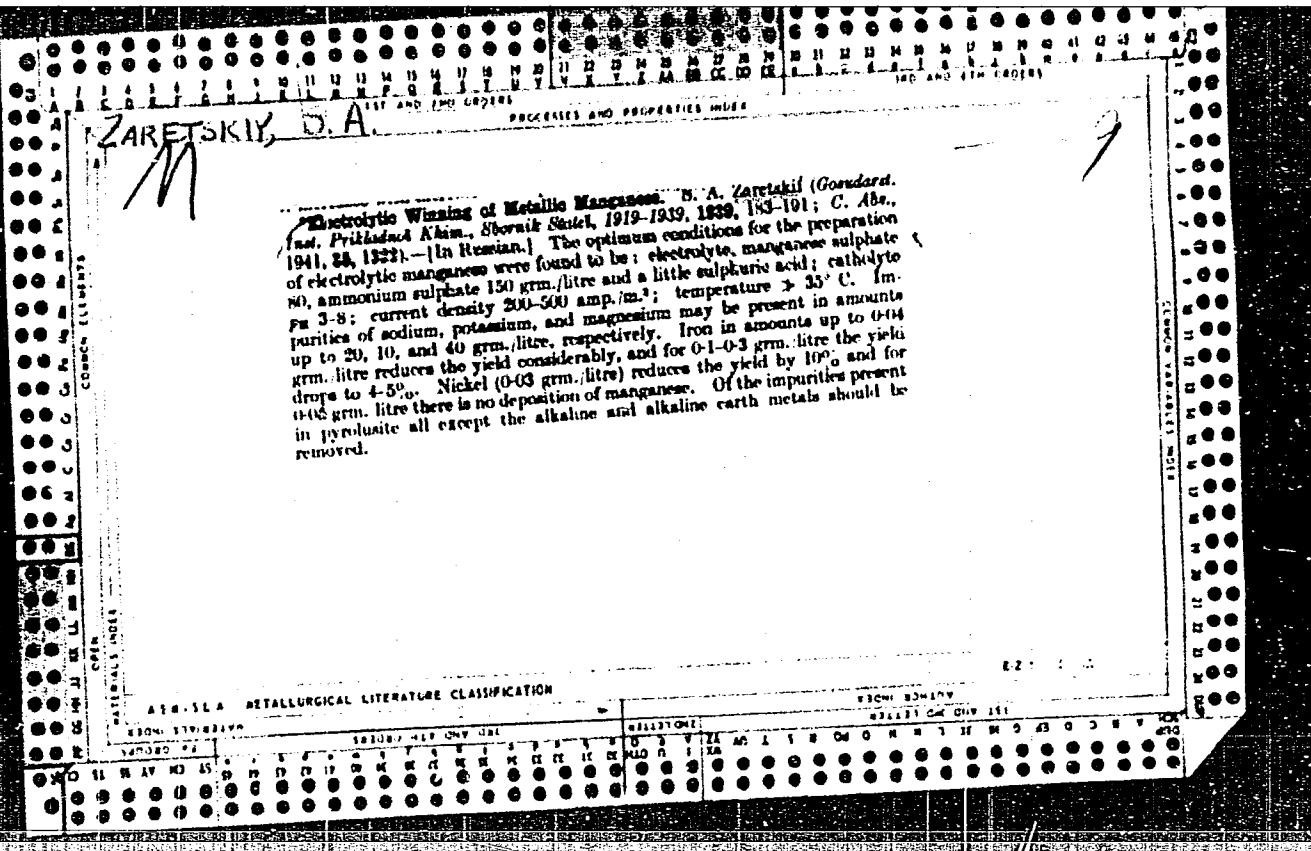
1. Khar'kovskiy oblastnoy onkologicheskiy dispanser. Submitted
November 13, 1964.

ZARETSKIY, S.A.; YURKOVA, L.S.; BUSSE-MACHUKAS, V.B.

Density of melts of the system $\text{NaCl} - \text{CaCl}_2 - \text{BaCl}_2$. Zhur.prikl.khim.
36 no.3:506-512 My '63. (MIRA 16:5)

(Alkaline earth chlorides)

(Fuses salts--Density)



ZARETSKII, S.A.		SECOND AND THIRD ORDERS PROCESSES AND PREPARATIONS			
4					
<p>Electrolytic production of manganese. L. P. B. Zhivotinskii, S. A. Zaretskii, I. A. Bogdanova and R. L. Livshits. <i>J. Applied Chem. (U. S. S. R.)</i> 12, 2008 (in French, 208) (1939).—The following conditions are recommended for the prepn. of Mn: (1) $MnCl_2 \cdot H_2O$ 250, NH_4Cl 100 g./l., HCl 0.03 mol./l., pH = 1.2-1.5; at 10-25°, c. d. 1000 amp./sq. m. at the plates and 2500 amp./sq. m. at the rods, Fe, Cu or Al cathode and graphite or Pt anode (alundum or asbestos-diaphragm); (2) $MnSO_4$ 80, $(NH_4)_2SO_4$ 130 and SO_4 0.05-0.4 g./l., pH = 4.7, at 20-30°, at c. d. 200-750 amp./sq. m., Fe as the cathode and Pt as anode (alum or ceramic diaphragm), & wooden cells. The current yields of Mn were 80 and 60% resp. A. A. Podgoriv</p>					
ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION					
ALUMINUM	INDEX MAP ONE ONE	SECTION	INDEX MAP ONE ONE		
100-349-14					
0 1 2 3 4 5 6 7 8 9	0 1 2 3 4 5 6 7 8 9	0 1 2 3 4 5 6 7 8 9	0 1 2 3 4 5 6 7 8 9		

CP ZARETSKII, S.A.

Electrolytic production of manganese. H. P. B.
Zhivotinskii, S. A. Zaretskii, I. A. Bogdanova and R. L.
Livshits. *J. Applied Chem. (U. S. S. R.)* 12, 635-41
(in French, 641) (1939); cf. *C. A.* 33, 6723^a.—Out of all
metals present in the Mn ore, only Na, K, Ca and Mg do
not affect the electrolytic pptn. of Mn. Fe, Al, Ni, Cu,
P and As should be sepd. from the Mn salts before elec-
trodeposition of Mn. For the prepn. of an electrolyte,
pyrolusite was dissolved with HCl or H₂SO₄. Fe²⁺ present
in the soln. was oxidized to Fe⁺⁺⁺; Fe⁺⁺⁺ and Al⁺⁺⁺
were pptd. with NH₄OH or MnCO₃ as hydroxides; P as
FePO₄; As was pptd. together with Fe(OH)₃ (cf. Blitz,
Ber. 37, III, 3138-50 (1904)) and Ni and Cu were pptd.
by boiling the soln. with Fe-Mn in alk. soln. The current
efficiency for pptn. of Mn from the purified electrolyte was
about 85%. A. A. Podgorny

ZAKETAKIY, SA

PROCESSES AND PROPERTIES INDEX

A new method of producing electrolytic manganese.
 S. A. Zaretakil. *Congr. Acad. sci. U.R.S.S.* 59, 181-4 (1947) (in English).—Pyrolusite is reduced to MnO by roasting with coal. This is dissolved in spent $MnSO_4 + (NH_4)_2SO_4$ electrolyte at room temp. until the soln. contains 90 g./l. $MnSO_4$ and 200 g./l. $(NH_4)_2SO_4$. The soln. is then treated with BaS, filtered, and electrolyzed. Use of an anode consisting of a Pb battery grid previously electrolytically coated with MnO_2 at 85-90° completely prevents deposition of MnO_2 from the soln. A Pb cup tightly wrapped with canvas is also effective. Rupt. run at 4.5-5.0 v. and 300 amp./sq. in. gave Mn yields of 49-56%. Cyrus Feldman

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

EXTRACTED SUBJECTS

SIGNIFICANT

SELECTED KEY WORDS

SIGNIFICANT

KEY WORDS

ZARETSKIY, S. A.

PHASE I BOOK EXPLORATION 50V/2216

5(b) Sov. Nauchnoye po elektrokhimi. 4th, Moscow, 1956.

Soveshchaniye po elektrokhimi. Transl. of the Fourth Conference on Electrochemistry; (Translators: I. M. Zhdanov (Ed.), N. M. Kabanov, Prof. V. V. Losav, F. D. Solotyrkin, Doctor of Chemical Sciences, V. V. Stender, Professor; V. A. Salov, Professor; Z. A. Salov, V. G. Yerov; N. G. Yerov; L. A. Lakomtsev, Professor; M. M. Piorlanovich, Ed. of Publishing House; N. G. Yerov; and O. M. Prusakova, Tech. Ed.) "A. A. Prusakova."

PURPOSE: This book is intended for chemists and electrical engineers, physicists, metallurgists and researchers interested in various aspects of electrochemistry.

COVERAGE: The book contains 127 of the 138 reports presented at the Fourth Conference on Electrochemistry sponsored by the Department of Chemical Sciences, and the Institute of Physical Chemistry, Academy of Sciences, USSR. The collection pertains to different branches of electrochemical: electrodeposition and industrial electrolytic processes in metals; electrodeposition of each division. Abridged discussions are given at the end of each division. The majority of reports not included here have been published in periodical literature. No personalities are mentioned. References are given at the end of most of the articles.

References are given at the end of each article.

Zaretskiy, S. A., V. O. Mat'jash, and I. A. Bogdanova.

RESULTS: Behavior of materials and its alloys
Razina, M. P. (Oneopropertsiya khimiko-tehnicheskikh i zirkon
materialov v elektrokhimicheskikh i nikel'nykh bateriiakh AN KarSSR - Diepro-
priavka, Institute of Technical Technology, Izmen. P. T. Diepr-
priavka, Institute of Chemistry, Academy of Sciences, Kar-
SSR). Electrode Processes at a Zinc Anode and Its Corrosion
During the Electrolysis of Sulfuric Acid Solutions 729

Discussion [P. P. Tyub and contributing authors] 722

PART IX. CHEMICAL SOURCES OF CURRENT

Bogdanov, V. S. Electrode Processes in New Electrochemical

Card 29/34

737

Sources of Current
Kabanov, Ya. B. Synthesis of Varnish-Lacquers and Bit-M. Kabanov.

Kabanov, Ya. B. Structure of the Insulating Plate of a Lead
Battery 744

Role of Tin in the Mechanism of the Loss
Battery 748

Kuznetsov, I. V. and V. I. Sosulin. Mechanism of the Positive
Material of a Zinc-Battery 752

Electrode of a Lead Battery
Krasil'nikov, Yu. V. E. Z. Vaynshteyn and B. M. Kabanov.
Investigating a Lead Zincide-Sulfide for Potassium-Dry 757

and Oxygen Evolution 762

Kirpukhov, T. A. (Vsesoyuznyy nauchno-issledovatel'skiy
Institut Elektronicheskikh Materialov). Growth of Zinc
Institute of Electronic Power Sources). Dendrite
Institute of Electric Power Sources 764

Dendrite in Some Smelting Polymers 765

Flerov, V. N. (Osnovnyiy politekhnicheskiy institut imeni

Card 30/34

L 42141-66 EVT(m)/T/EWP(t)/ETI IJP(c) DS/JD/NN/CD/JG

ACC NR: AT6022484

(N)

SOURCE CODE: UR/0000/65/000/000/0338/0341

AUTHOR: Zaretskiy, S. A.; Suchkov, V. N.; Busse-Machukas, V. B.; Kisel'gof, Yu. S.;
Yakimenko, L. M.; Alabyshev, A. F.

none

75
4+1TITLE: On the preparation of chlorine, caustic soda, and alkali metals by electrolysis of fused media with a liquid lead cathode

SOURCE: Vsesoyuznoye soveshchaniye po fizicheskoy khimii rasplavlennykh soley. 2d, Kiev, 1963. Fizicheskaya khimiya rasplavlennykh soley (Physical chemistry of fused salts); trudy soveshchaniya. Moscow, Izd-vo Metallurgiya, 1965, 338-341

TOPIC TAGS: electrolysis, alkali metal, lead, liquid metal, chlorine, sodium hydroxide, CATHODE

ABSTRACT: In recent years, a new method of producing alkali metals has been in use in the Soviet Union: the metals are distilled out of a lead-alkali alloy prepared by electrolysis on a liquid lead cathode. However, the process is characterized by a recurring decrease of current efficiencies, particularly at high cathodic current densities. The article reviews studies made for the purpose of improving this method. It is shown that the electrolysis of alkali metal chlorides in molten salts with a circulating liquid lead cathode and distillation of the metal has many advantages over the electrolysis of aqueous solutions, namely: (a) pure sodium metal can be obtained at high current efficiencies, and pure caustic soda is thus produced without the necessity of using expensive mercury; (b) it is no longer necessary to build evaporation units and

Card 1/2

ACC NR: AT6022484

units for melting caustic soda; (c) the process is carried out at current densities that are 30-35 times higher than in diaphragm electrolysis, and 6-7 times higher than in mercury electrolysis. Orig. art. has: 5 figures.

SUB CODE: 07/ SUBM DATE: 23Aug65/ ORIG REF: 007

Card 2/2 DDCR

ZARETSKIY, S. A.

PA 11T69

USSR/Manganese - Production Apr 1947
Electrolytic cells - Manganese production

"A New Method of Producing Electrolytic Manganese,"
S. A. Zaretskiy, 3 pp

"CR Acad Sci" Vol LVI, No 2

Flow-chart for manganese. Tables of characteristics,
showing ampere-hours, quantity deposited, amount of
ammonia added, etc., obtained from laboratory exper-
iments. A new scheme is proposed for producing
electrolytic manganese.

11T69

ZARETSKIY, S. A.

PA 34T15

USSR/Chemistry - Manganese
Manganese Apr 1947

"A New Method of Obtaining Electrolytic Manganese,"
S. A. Zaretskiy, 4 pp

"Doklady Akademii Nauk SSSR" Vol LVI, No 2

This method is based upon the idea of neutralization
of the acid formed at the anode in the same bath.
Such a solution of the problem makes it possible to
carry out the process of electrolysis in the bath
without dividing the electrolytes into anolyte and
catholyte. This also greatly simplifies the solution
of the problem of working with the anode formation of
manganese dioxide. The details of the method are
given.

ID

34T15

ZARETSKIY, S.A.; BUSSE-MACHUKAS, V.B.; KARAKHANOY, A.A.

Anodic critical current densities in electrolytes: NaCl, KCl,
NaCl - CaCl₂ and NaCl - BaCl₂ - CaCl₂. Zhur.prikl.khim. 34
no.11:2478-2482 N '61. (MIRA 15:1)
(Electrolytes) (Electric charge and distribution)

27124

S/080/60/033/008/017/022/XX
D213/D305

5.2100 1031

AUTHORS: Zaretskiy, S.A., and Busse-Machukas, V.B.

TITLE: A method of producing potassium from electrolytically prepared lead-potassium alloy

PERIODICAL: Zhurnal prikladnoy khimii, v. 33, no. 8, 1960,
1828 - 1833

TEXT: Experiments are described which show that from an electrolyte containing 40 % KCl and 60 % K_2CO_3 electrolyzed at a temperature of 675-730°C, with a cathode current density of 0.5-0.6 A/cm², an alloy containing 11.8 - 14.6 % K can be prepared with current efficiencies of 70 - 77 %. K is produced from the alloy by distillation in vacuo. The construction of the electrolytic cell is shown in Fig. 1. There are 4 figures, 2 tables and 13 references: 6 Soviet-bloc and 7 non-Soviet-bloc. The reference to the English-language publication reads as follows: H. Davy, Phil. Mag., 32, 4, 1808.

SUBMITTED: October 21, 1959
Card 1/2

A method of producing ...

Fig. 1. Electrolytic cell construction.

Legend: 1 - steel crucible; 2 - porcelain bucket; 3 - thermocouple; 4 - current supply to molten lead; 5 - porcelain bucket for molten cathode; 6 - anode.

27124
S/080/60/033/008/017/022/XX
D213/D305

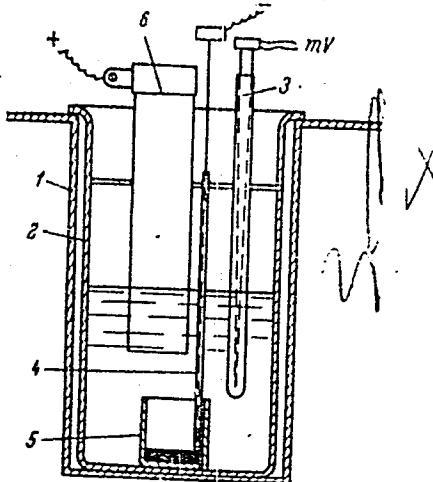


Рис. 1. Конструкция электролизера.

1 — стальной тигель, 2 — фарфоровый стакан, 3 — термопара, 4 — токоподвод к расплавленному свинцу, 5 — фарфоровый стакан для жидкого катода, 6 — анод.

Card 2/2

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001963820011-0

SHAMISKY, S....; VASILYEV, V.

Permit for obtaining of info. Zhd. VNO 5 no. 3027-350
U.S. (L.E. 11:3)

(P.M.R. 11:1)

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001963820011-0"

ZARETSKIY, S.A.; BUSSE-MACHUKAS, V.B.

Method of producing potassium alloy obtained electrolytically. Zhur.
prikl. khim. 33 no.8:1828-1833 Ag '60. (MIRA 13:9)
(Potassium) (Potassium-lead alloys)

ZARETSKIY, S. A., BUSSE-MACHUKAS, V. B.

Composition of anodic gases in the production of alkali metals
by the electrolysis of fused salt mixtures. Zhur.prikl.khim
33 no.5:1219-1221 My '60. (MIRA 13:7)
(Alkali metals) (Electrolysis) (Chlorine)

83255
S/063/60/005/A03/003/003
A003/A001

5.2100

AUTHORS: Zaretskiy, S.A., Busse-Machukas, V.B.

TITLE: A New Method for the Production of Potassium

PERIODICAL: Zhurnal vsesoyuznogo khimicheskogo obshchestva im. D.I. Mendeleyeva,
1960, Vol. 3, No. 3, pp. 357 - 358

TEXT: A method was developed based on the electrolytic separation of potassium on a liquid cathode with the formation of alloys and subsequent distillation. Lead can be used as liquid cathode (Ref 2). The following mixtures were used as electrolytes: KCl-K₂CO₃ (50% K₂CO₃); KCl-KF (40% KF) and molten KCl. Current yields of 80-85% were obtained from the KCl-K₂CO₃ electrolyte at 700°C and a cathode current density of 0.8 amp/cm², with a potassium content of 7% in the alloy. An increase in the content to 10-12% decreases the current yield to 70-75%. Current yields of 85-90% were obtained from KCl-KF at 680°C and a cathode density of 0.8 amp/cm², with a potassium content of 7% in the alloy. Molten KCl shows a current yield of 75-80% at 820°C. The optimum cathode density is 0.4-0.8 amp/cm². The melting point of KCl can be decreased by adding sodium salts. In this case sodium is separated on the liquid cathode together with potassium and must be distilled

Card 1/2

83255

A New Method for the Production of Potassium

S/063/60/005/003/003/003
A003/A001

off. A sodium-potassium alloy with a potassium content above 40% is the optimum material as regards energy consumption in distillation. The effect of F⁻ and CO₃²⁻ ions on the content of potassium in the alloy was investigated. It was shown that a content of 16.7% NaF yields an optimum ratio of Na:K in the alloy. Distillation of K from the lead alloys was carried out at a residual pressure of 0.5 mm Hg. The temperature was 500-600°C. The rate of potassium distillation was 0.5 g/cm² · hour. Based on the laboratory investigations industrial tests were made. There are 2 figures and 6 Soviet references. X

SUBMITTED: November 28, 1959

Card 2/2

ALABYSHEV, A.F.; GRACHEV, K.Ya.; ZARETSKIY, S.A.; LANTRATOV, M.F.;
FEDOT'YEV, N.P., prof., retsentent; KHAIN, P.G., inzh., retsen-
zent; MORACHEVSKIY, A.G., red.; ERLIKH, Ye.Ya., tekhn.red.

[Sodium and potassium; their preparation, properties, and uses]
Natrii i kalii; poluchenie, svoistva, primenenie. Pod red. A.F.
Alabysheva. Leningrad, Gos.nauchno-tekhn.izd-vo khim.lit-ry,
1959. 390 p.

(Sodium)

(Potassium)

(MIRA 13:3)